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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/782,319	02/13/2001	Yoshiaki Kawatsura	080017.0008	9818	
20457	7590 09/28/2004		EXAM	EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889			CHAI, LO	CHAI, LONGBIT	
			ART UNIT	PAPER NUMBER	
			2131		

DATE MAILED: 09/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	LA CONTRACTOR NO		
•	Application No.	Applicant(s)	I
Office Action Comments	09/782,319	KAWATSURA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Longbit Chai	2131	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tiry within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 29 Ag 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.		
 9) The specification is objected to by the Examine 10) The drawing(s) filed on 13 February 2001 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 	e: a)⊠ accepted or b)⊡ objecte drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ijected to. See 37 CFR 1.121(d).	,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

Art Unit: 2131

DETAILED ACTION

Priority

- 1. The application is filed on 02/13/2001 but the foreign priority has been made in this application.
- 2. The effective filing date for the subject matter defined in the pending claims in this application is 07/19/2000 on the benefit of foreign priority date.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dan (Patent Number: 5825877), hereinafter referred to as Dan, in view of Bjerrum (Patent Number: EP 0402301 A1), hereinafter referred to as Bjerrum.
- 4. As per claim 2 and 9, Dan teaches a contents distribution method through the use of a communication network over which:
- 5. a recipient machine, an entitlement granter machine, and a contents distributor machine (Dan: see for example, Column 1 Line 9, Column 1 Line 49 51 and Column 2

Art Unit: 2131

Line 35 & Figure 1: An entitlement granter machine reads on an certification agency which provides the Access Control List (ACL – i.e. digital rights data) of the desired content document, the code production system reads on the recipient machines and the client system's verifier (ACL manager / enforcer) reads on the digital rights data verifier of the content distributor machine) are interconnected, comprising:

- 6. Dan teaches uses the digital signature along with the cryptographic hash of the ACL (digital rights data) and verify that it matches both of the signature and hash result (Dan: see for example, Column 3 Line 6 29).
- 7. Dan does not disclose expressly using the recipient's public key, putting digital signature using the entitlement granter's secret key to the thus encrypted digital rights data to create a digital signature.
- 8. Bjerrum teaches using the recipient's public key, putting digital signature using the entitlement granter's secret key to the thus encrypted digital rights data to create a digital signature (Bjerrum: see for example, Column 24 Line 44 45).
- 9. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Bjerrum within the system of Dan because Bjerrum teaches a method / system transferring data or electronic document which is being received in encrypted form, especially using asymmetric cryptographic techniques with a pair of key i.e., its own private key of digital signature and other person's public key (Bjerrum: see for example, Column 3 Line 39 42, Column 24 Line 32 45).
- 10. Therefore, Dan as modified teaches:

Art Unit: 2131

a. a step to be taken on the entitlement granter machine that comprises sequential actions of encrypting digital rights data relevant to the contents request information with the recipient's public key, putting digital signature using the entitlement granter's secret key to the thus encrypted digital rights data, and sending the encrypted digital rights data with the entitlement granter's digital signature thereon to the recipient machine (Bjerrum: see for example, Column 3 Line 39 – 42, Column 24 Line 32 – 45);

Page 4

b. a step to be taken on the recipient machine that comprises sequential actions of decrypting the encrypted digital rights data with the recipient's secret key and sending a message containing digital rights data thus decrypted, the encrypted digital rights data with the entitlement granter's digital signature thereon, and the recipient's public key to the contents distributor machine (Dan: see for example, Column 2 Line 66, Column 2 Line 67, and Column 3 Line 6 – 29: The imported digital rights data is the decrypted results) & (Bjerrum: see for example, Column 24 Line 44 – 45 and Column 32 Line 43 – 50: (a) Bjerrum teaches the concept using the encrypted digital rights data with the entitlement granter's digital signature thereon, to the contents distributor machine for validation and it is evident that the recipient machine just continues to pass-on this information from the source of granter machine (or CA) to the authenticity destination of contents distributor, and (b) Bjerrum also teaches a public key is widely available and known to the public and is not necessitated being sent over the network (Bjerrum: see for example, Column 32 Line 45 – 46);

Art Unit: 2131

- c-1. a step to be taken on the contents distributor machine that comprises sequential actions of verifying the entitlement granter's digital signature by using the entitlement granter's public key (Dan: see for example, Column 3 Line 8),
- 11. Dan teaches verifying the hash result of digital rights data (Dan: see for example, Column 3 Line 6 29).
- 12. Dan does not disclose expressly encrypting the digital rights data with the recipient's public key, making sure that the thus encrypted digital rights data matches with the encrypted digital rights data.
- 13. One of ordinary skill in the art would have expected, at the time the invention was made, Applicant's invention to perform equally well with either verifying the hash result of digital rights data taught by Dan or the claimed "encrypting the digital rights data with the recipient's public key to ensure encrypted digital rights data matches with the encrypted digital rights data" because (a) both solutions perform the same function of validating the authenticity of the digital rights data (b) Bjerrum teaches an asymmetrical crypto system can be used not only for data concealment but also for authenticity purpose (Bjerrum: see for example, Column 24 Line 38 39).
- c-2. encrypting contents data to be sent to the recipient machine with the recipient's public key, and sending the thus encrypted contents data to the recipient machine (Bjerrum: see for example, Column 3 Line 39 42, Column 24 Line 32 35, Column 24 Line 38 39 and Column 32 Line 43 50); and

Art Unit: 2131

- d. a step to be taken on the recipient machine that is decrypting the encrypted contents data with the recipient's secret key (Bjerrum: see for example, Column 24 Line 32 35 and Column 32 Line 49 50).
- e. a step to be taken on the recipient machine that is sending a message containing the recipient's public key and contents request information that the recipient wants to get specific contents to the entitlement granter machine (Bjerrum: see for example, Column 32 Line 43 50) & (Dan: see for example, Column 2 Line 27 29: The request from the recipient machines to start the entire operations is inherited from the design structures. Both Bjerrum and Dan teach a public key is widely available and known to the public and is not necessitated being sent over the network).
- 14. As per claim 1, 8, 15 16, and 18 19, claim 1, 8, 15 16, and 18 19 do not further teach over claim 2 / 9. Therefore, see rationale addressed above in rejecting claim 2 / 9.
- 15. As per claim 3-4, 10-11 and 20, Dan as modified teaches the claimed invention as described above (see claim 1-2, 8-9 and 19 respectively). Dan as modified further teaches contents distribution method comprising:
- a. a step of sending an entry form for acquiring information about the recipient from the contents distributor machine to the recipient machine after the action of making sure of encrypted digital rights data matching is carried out on the contents distributor machine (Bjerrum: see for example, Column 46 Line 29 34: Bjerrum teaches

Art Unit: 2131

verification of the authenticity of the content receiving station by the content distributor is required prior to transfer electronic document to the content receiving station. It is evident this is followed after the digital rights data has been validated as taught by Dan in claim 2):

- b. a step to be taken on the recipient machine that comprises sequential actions of generating an entry form filled with data as a result of that the recipient enters necessary information into the entry form, putting digital signature using the recipient's secret key to the entry form filled with data, and sending the entry form filled with data with the recipient's digital signature thereon to the contents distributor machine (Bjerrum: see for example, Column 24 Line 32 35, Column 24 Line 38 40 and Column 42 Line 49 54); and
- c. a step to be taken on the distributor machine that comprises sequential actions of verifying the recipient's digital signature by using the recipient's public key and sending the contents data encrypted with the recipient's public key to the recipient machine (Bjerrum: see for example, Column 24 Line 38 40, Column 24 Line 32 35 and Column 3 Line 39 41).
- 16. As per claim 5-7 and 12-14, Dan as modified teaches the claimed invention as described above (see claim 1-2 and 8-9 respectively). Dan as modified further teaches contents distribution method wherein:
- a. when the entitlement granter machine sends the encrypted digital rights data to the recipient machine, a certificate that is objective authentication of the entitlement

Art Unit: 2131

granter and includes the entitlement granter's public key is attached to the data (Dan: see for example, Column 2 Line 27);

- b. when the recipient machine sends the digital rights data to the contents distributor machine, the certificate of the entitlement granter is attached to the data (Dan: see for example, Column 3 Line 5); and
- c. the contents distributor machine verifies the certificate of the entitlement granter and uses the entitlement granter's public key derived from the certificate of the entitlement granter when verifying the entitlement granter's digital signature (Dan: see for example, Column 3 Line 4-9).
- 17. As per claim 17, Dan as modified teaches the claimed invention as described above (see claim 15). Dan as modified further teaches the entitlement granter machine wherein the computer system built on the entitlement granter machine is further comprised of a means to extract digital rights data that has been put under management beforehand, based on the contents request information (Dan: see for example, Column 1 Line 55 56 and Column 2 Line 34 38: Dan teaches ACL (i.e. digital rights data) is stored and extracted from the server and signed with the signature before sending to the client).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 703-305-0710. The examiner can normally be reached on Monday-Friday 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Longbit Chai Examiner Art Unit 2131

LBC

AVAZ SHEIKH

OUTTELEGITH PATENT EXALIBIES

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